IN THE CLAIMS, PLEASE ADD:

34. (new) A method for forming a multilayer solder attachment site in an electronic assembly having one or more copper connection sites, the method comprising the steps of:

applying a thin nickel layer to at least one copper connection site; applying a diffusion layer to the thin nickel layer;

thereby forming a multilayer solder attachment site for facilitating the formation of an intermetallic compound upon the application of molten solder.

- 35. (new) A method according to claim 34 wherein the intermetallic compound comprises copper-tin.
- 36. (new) A method according to claim 34 wherein the intermetallic compound comprises copper-tin-nickel.
- 37. (new) A method according to claim 34 wherein the diffusion layer comprises palladium.
- 38. (new) A method according to claim 34 wherein the diffusion layer comprises gold.
- 39. (new) A method according to claim 34 wherein the thin nickel layer is applied to a thickness of greater than about 0.05 microns.
- 40. (new) A method according to claim 34 wherein the thin nickel layer is applied to a thickness of less than about 0.28 microns.

- 41. (new) A method according to claim 34 wherein the thin nickel layer is applied to a thickness within the range of approximately 0.05 microns to approximately 0.28 microns.
- 42. (new) A method according to claim 34 wherein the diffusion layer is applied to a thickness of greater than about 0.1 microns.
- 43. (new) A method according to claim 34 wherein the diffusion layer is applied to a thickness of less than about 0.3 microns.
- 44. (new) A method according to claim 34 wherein the diffusion layer is applied to a thickness within the range of approximately 0.1 microns to approximately 0.3 microns.
- 45. (new) A method according to claim 34 further comprising steps of interposing an intermediate nickel layer atop the copper connection site and an intermediate copper layer thereon underlying the thin nickel layer.
- 46. (new) A multilayer solder attachment site in an electronic assembly having one or more copper connection sites, the multilayer solder attachment site comprising:
 - a thin nickel layer on at least one copper connection site;
 - a diffusion layer on the thin nickel layer;
- wherein a multilayer solder attachment site is provided for facilitating the formation of an intermetallic compound upon the application of molten solder.
- 47. (new) A multilayer solder attachment site according to claim 46 wherein the multilayer solder attachment site is adapted for the formation of an intermetallic compound comprising copper-tin.

- 48. (new) A multilayer solder attachment site according to claim 46 wherein the multilayer solder attachment site is adapted for the formation of an intermetallic compound comprising copper-tin-nickel.
- 49. (new) A multilayer solder attachment site according to claim 46 wherein the diffusion layer comprises palladium.
- 50. (new) A multilayer solder attachment site according to claim 46 wherein the diffusion layer comprises gold.
- 51. (new) A multilayer solder attachment site according to claim 46 wherein the thin nickel layer is greater than about 0.05 microns in thickness.
- 52. (new) A multilayer solder attachment site according to claim 46 wherein the thin nickel layer is less than about 0.28 microns in thickness.
- 53. (new) A multilayer solder attachment site according to claim 46 wherein the thin nickel layer is within the range of approximately 0.05 microns to approximately 0.28 microns in thickness.
- 54. (new) A multilayer solder attachment site according to claim 46 wherein the diffusion layer is greater than about 0.1 microns in thickness.
- 55. (new) A multilayer solder attachment site according to claim 46 wherein the diffusion layer is less than about 0.3 microns in thickness.

- 56. (new) A multilayer solder attachment site according to claim 46 wherein the diffusion layer is within the range of approximately 0.1 microns to approximately 0.3 microns in thickness.
- 57. (new) A multilayer solder attachment site according to claim 46 further comprising an intermediate nickel layer atop the copper connection site and an intermediate copper layer thereon underlying the thin nickel layer.
- 58. (new) A multilayer solder attachment site according to claim 57 wherein the intermediate nickel layer is approximately 0.5 microns in thickness.
- 59. (new) A multilayer solder attachment site according to claim 57 wherein the intermediate copper layer is greater than about 0.5 microns in thickness.
- 60. (new) A multilayer solder attachment site according to claim 57 wherein the intermediate copper layer is less than about 1.0 microns in thickness.